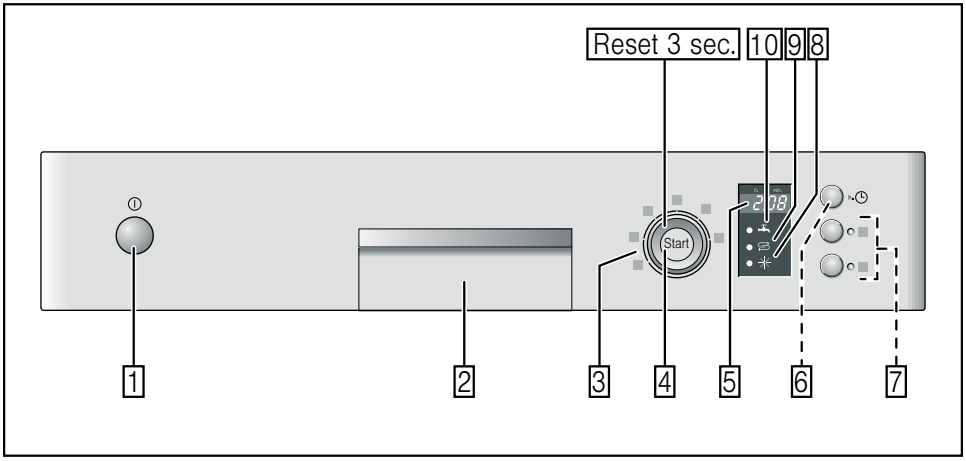
Dishwasher

BOSCH

en Operating instructions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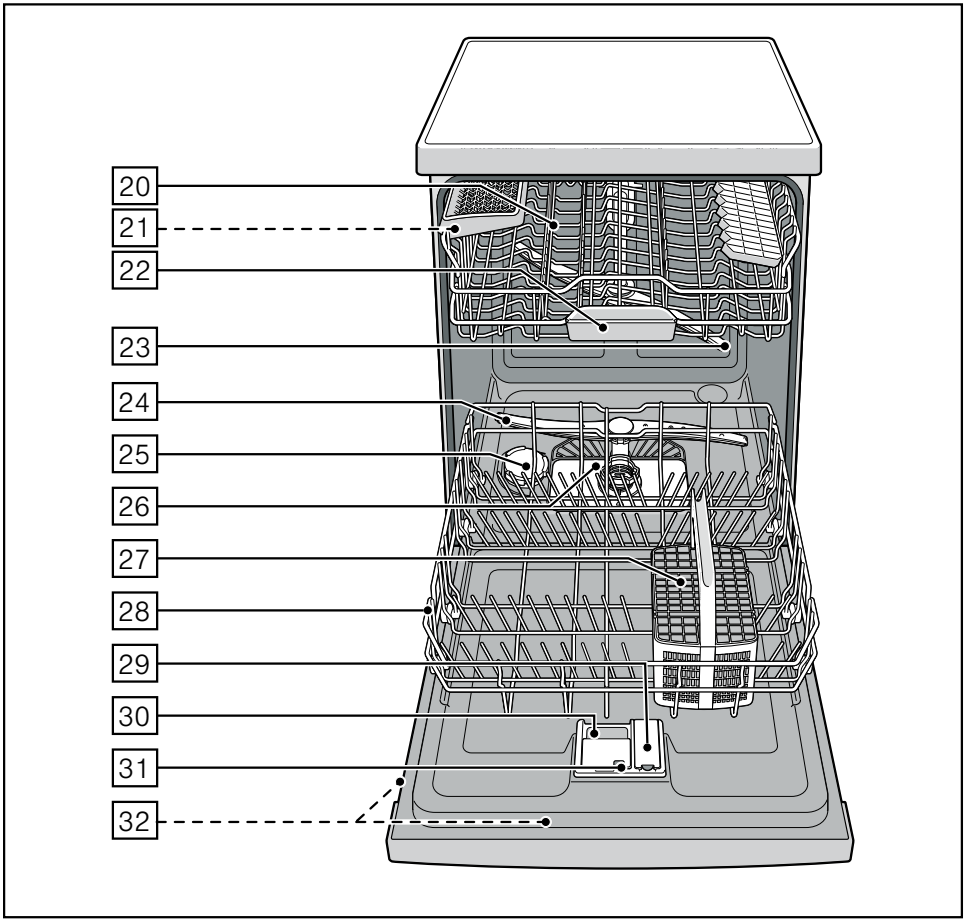
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Intended use

- This appliance is intended for use in the home and the home environment.
- Use the dishwasher only in the household and only for its designed purpose: for washing domestic dishes.

Safety instructions

Children from 8 years of age or people whose physical, sensory or mental abilities or their lack of experience or knowledge prevent them from using the appliance safely must not use this appliance without supervision or instruction by a responsible person.

Before you switch ON the appliance

Please read the operating and installation instructions carefully. They contain important information on how to install, use and maintain the appliance.

Retain all documents for subsequent use or for the next owner.

Delivery

1. Check the packaging and dishwasher immediately for damage caused in transit. Do not switch on a damaged appliance, but contact your supplier.
2. Please dispose of the packaging material in an environmentally friendly manner.
3. Do not let children play with packaging and its parts. There is a risk of suffocation from collapsible boxes and film.

Installation

- Following installation, ensure that the back of the dishwasher is not freely accessible (protection against contact due to hot surface).
- Install and connect the appliance according to the installation and assembly instructions.
- Prior to installation, disconnect the dishwasher from the power supply.
- Ensure that the protective conductor system of the domestic supply has been correctly installed.
- The electrical connection conditions must correspond with the specifications on the dishwasher rating plate [32].
- If the power cord of this appliance is damaged, it must be replaced with a particular power cord.
  To prevent injury, the power cord may be replaced by customer service only.
- If the dishwasher is installed in a high-sided unit, the unit must be secured properly.
- If you install a microwave oven above the dishwasher, the microwave oven may be damaged.
- Install built-under or integratable appliances only under continuous worktops which have been screwed to adjacent cupboards to ensure stability.
- Do not install the appliance near heat sources (radiators, heat storage tanks, cookers or other appliances which generate heat) and do not install under a hob.
- After installing the appliance, ensure that the plug is easily accessible.
  (See Electrical connection)

- Some models:
  The plastic housing on the water connection contains an electric valve, the connecting cables are in the supply hose. Do not cut through this hose, do not immerse the plastic housing in water.

In daily use

Read and observe the safety information and instructions for use on the packaging for cleaning and rinsing agents.

Childproof lock (door lock) *

The description of the childproof lock is at the back in the envelope.

* depending on model

Damage

- The appliance may be repaired and opened up by a technician only. To do this, disconnect the appliance from the power supply. Pull out the mains plug or switch off the fuse. Turn off the tap.
- If the fascia is damaged (cracks, holes, broken buttons), do not operate the appliance. Pull out the mains plug or switch off the fuse. Turn off the tap, call customer service.

Disposal

1. Make redundant appliances unusable to prevent subsequent accidents.
2. Dispose of the appliance in a n environmentally friendly manner.

⚠ Warning
Risk of injury!

- To prevent injuries, e.g. caused by stumbling, open the dishwasher only briefly in order to load and unload the dishwasher.
- Knives and other utensils with sharp points must be placed in the cutlery basket with the points downwards or horizontally on the knife shelf*.
- Do not lean or sit on the open door.
- In the case of free-standing appliances, ensure that the baskets are not overloaded.
- If the appliance is not in a cavity and a side panel is accessible, the door hinge area must be covered at the side for reasons of safety (risk of injury). The covers are available as optional accessories from customer service or specialist outlets.

* depending on model

⚠ Warning
Risk of explosion!

Do not add any solvents to the washing chamber. Danger of explosion!

⚠ Warning
Risk of scalding!

Open the door carefully when the programme is still running. There is a risk of hot water spraying out of the appliance.

⚠ Warning
Risks to children!

- If fitted, use the childproof lock. An exact description can be found in the back of the enve lope.
- Do not allow children to play with or operate the appliance.
- Keep children away from detergents and rinse aid. These may cause chemical burns in the mouth, throat and eyes or asphyxiation.
- Keep children away from open dishwasher. The water in the rinsing compartment is not drinking water and could contain detergent residue.
- Ensure that children do not place fingers in the tablet collecting tray 22. Small fingers could become caught in the slots.
- When opening and closing the door on an eye-level appliance, ensure that children do not become jammed or crushed between the appliance door and the cupboard door below.
- Children could become locked in the appliance (danger of suffocation) or get into another dangerous situation.
  Redundant appliances: Pull out the mains plug, sever and dispose of the power cord. Destroy the door lock so that the door can no longer be closed.

Protection of the environment

Both the packaging of new appliances and the old appliances themselves contain valuable raw materials and recyclable materials.

Please dispose of the individual parts separated according to type.

Please ask your dealer or inquire at your local authority about current means of disposal.

Packaging

All plastic parts of the appliance are identified with internationally standardised abbreviations (e.g. >PS< polystyrene). Therefore, plastic waste can be sorted out when the appliance is being disposed of.

Please follow the safety instructions under “Delivery”.

Old appliances

Please follow the safety instructions under “Disposal of your appliance”.

This appliance is identified according to the European guideline 2002/96/EC on waste electrical and electronic equipment – WEEE. The guideline specifies the framework for an EU-wide valid return and re-use of old appliances.

Getting to know your appliance

Diagrams of the control panel and the interior of the appliance can be found in the envelope at the front.

Individual positions are referred to in the text.

Control panel

[1] ON/OFF switch
[2] Door opener
[3] Programme selector
[4] START button
[5] Digital display
[6] Timer programming *
[7] Additional options **
[8] Rinse aid refill indicator
[9] Salt refill indicator
[10] Display “Check water supply”
* depending on model
** Number depending on model

Appliance interior

[20] Top basket
[21] Knife shelf *
[22] Tablet collecting tray
[23] Top spray arm
[24] Bottom spray arm
[25] Dispenser for special salt
[26] Filters
[27] Cutlery basket
[28] Bottom basket
[29] Dispenser for rinse aid
[30] Detergent dispenser
[31] Lock for detergent dispenser
[32] Rating plate
* depending on model

Water softening system/Special salt

To ensure good washing results, the dishwasher requires soft water, i.e. containing low amounts of lime, otherwise white limescale will be deposited on the utensils and inner container.

Tap water above 1.2 mmol/l must be softened. The water is softened with special salt (regeneration salt) in the water softening system of the dishwasher.

The setting and therefore the required amount of salt depends on the degree of hardness of your tap water (see table).

Setting

The amount of salt dispensed can be set from H:00 to H:07.

Salt is not required at the set value H:00.

1. Find out about the hardness value of your tap water. Your water utility company will help you with this.
2. Set value can be found in the water hardness table.
3. Close the door.
4. Switch on ON/OFF switch 1.
5. Press and hold down the START button 4.
6. Rotate programme selector 3 until H:0... is indicated on the digital display 5.
7. Release button.
   The factory set value H:04 is lit on the digital display 5.

To change the setting:

1. Rotate programme selector 3 until the required value is indicated on the digital display 5.
2. Press START button 4.
   The set value is saved.

Water hardness table

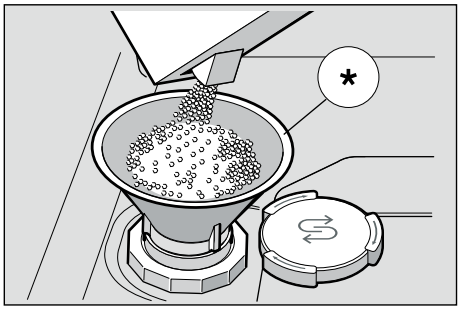
Water hardness value °Clarke	Hardness range	mmol/l	Set value on the machine
0–8	soft	0–1.1	H:00
9–10	soft	1.2–1.4	H:01
11–12	medium	1.5–1.8	H:02
13–15	medium	1.9–2.1	H:03
16–20	medium	2.2–2.9	H:04
21–26	hard	3.0–3.7	H:05
27–38	hard	3.8–5.4	H:06
39–62	hard	5.5–8.9	H:07

Using special salt

Always refill with special salt immediately before switching on the appliance. This ensures that overrun special salt solution is immediately washed out and does not corrode the rinsing tank.

1. Open the screw-type cap of the compartment 25.
2. Fill the tank with water (only required when switching on the appliance for the first time).
3. Then add dishwasher salt **(not table salt or tablets)**.
   The water is displaced and runs out.

As soon as the salt refill indicator 9 on the fascia is lit, top up the salt.



* depending on model

Using detergents with salt component

If combined detergents with a salt component are used, salt can usually be omitted up to a water hardness of 21° dH (37° fH, 26° Clarke, 3.7 mmol/l). If the water hardness is over 21° dH, special salt must be used.

Switching off salt refill indicator/water softening system

If the salt refill indicator 9 is impaired (e.g. when using combined detergents containing salt component), it can be switched off.

- Proceed as described under "Adjusting the water softening system" and set the value to *H:00*.

  The water softening system and salt refill indicator are now switched off.

⚠ Caution

Never fill the salt dispenser with detergent. You will destroy the water softening system.

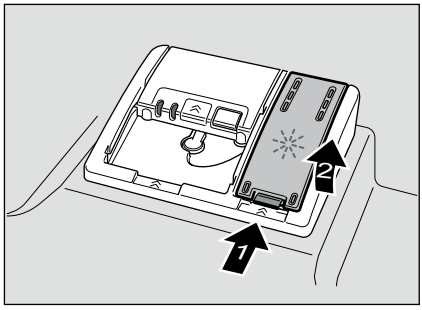
Rinse aid

As soon as the rinse-aid refill indicator 8 is lit on the fascia, there is still a rinse-aid reserve of 1-2 rinsing processes. Refill with rinse aid.

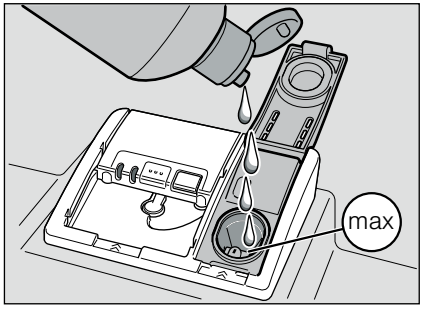
The rinse aid is required for stain-free utensils and clear glasses. Use only rinse aid for domestic dishwashers.

Combined detergents with rinse-aid component may be used up to a water hardness of 21° dH (37° fH, 26° Clarke, 3.7 mmol/l) only. If the water hardness is over 21° dH, rinse aid must be used.

1. Open the dispenser 29 by pressing and lifting the plate on the cover.



2. Carefully pour rinse aid up to the max. mark in the filler opening.



3. Close cover until it clicks shut.
4. To prevent excessive foam formation during the next rinse cycle, remove any rinse aid which has run over with a cloth.

Setting amount of rinse aid

The amount of rinse aid can be set from r:00 to r:06. Please set rinse aid on r:05 to obtain very good drying results (r:05 is already set in factory).

Change this setting, only if streaks (select lower setting) or water stains (select higher setting) are left on the utensils.

1. Close the door.
2. Switch on ON/OFF switch 1.
3. Press and hold down the START button 4.
4. Rotate programme selector 3 until r:0... s indicated on the digital display 5.
5. Release button.
   The factory set value r:05 is lit on the digital display 5.

To change the setting:

1. Rotate programme selector 3 until the required value is indicated on the digital display 5.
2. Press START button 4.
   The set value is saved.

Switching off rinse aid refill indicator

If the rinse-aid refill indicator 8 is impaired (e.g. when using combined detergents containing rinse aid component), it can be switched off.

- Proceed as described under “Setting amount of rinse aid” and set the value to r:00.

The rinse aid refill indicator 8 is now switched off.

Utensils

Not suitable

- Cutlery and utensils made of wood.
- Delicate decorative glasses, craft and antique utensils. These decors are not dishwasher-proof.
- Plastic parts not resistant to heat.
- Copper and tin utensils.
- Utensils which are soiled with ash, wax, lubricating grease or ink.

Aluminium and silver parts have a tendency to discolour and fade during the wash cycle. Even some types of glass (e.g. crystal glass objects) may turn cloudy after many wash cycles.

Glass and utensil damage

Causes:

- Glass type and glass production process.
- Chemical composition of the detergent.
- Water temperature of the wash programme.

Recommendation:

- Use only glasses and porcelain which the manufacturer designates as dishwasher-proof.
- Use a detergent which protects utensils.
- Take glass and cutlery out of the dishwasher as soon as possible after the programme ends.

Loading the dishwasher

1. Remove large food remnants. It is not necessary to prerinse utensils under running water.
2. Place the utensils so that
   - they are secure and cannot tip over.
   - all utensils with their openings face down.
   - parts with curves or indentations are at an angle, thereby allowing water to drain.
   - does not obstruct rotation of the two spray arms [23] and [24].

Very small utensils should not be washed in the machine, as they may fall out of the baskets.

Unloading the dishwasher

To prevent water from dripping off the upper basket onto the utensils in the lower basket, it is recommended to empty the appliance from the bottom up.

Hot utensils are sensitive to shock! Therefore, when the programme ends, leave the utensils to cool down in the dishwasher until they can be handled.

Note

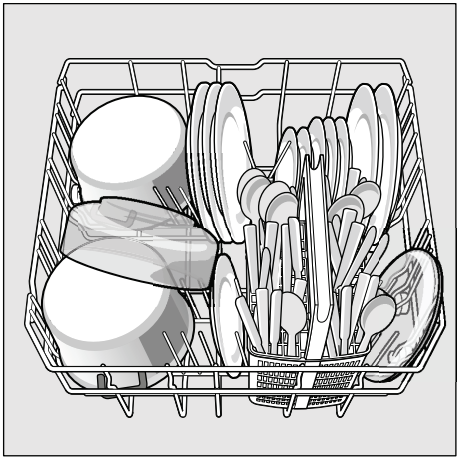
When the programme ends, water droplets can still be seen inside the appliance. This does not affect the drying of the utensils.

Cups and glasses

Top basket [20]

Pans

Bottom basket [28]



Tip

Heavily soiled utensils (pans) should be placed in the bottom basket. The more powerful spray jet provides a better dishwashing result.

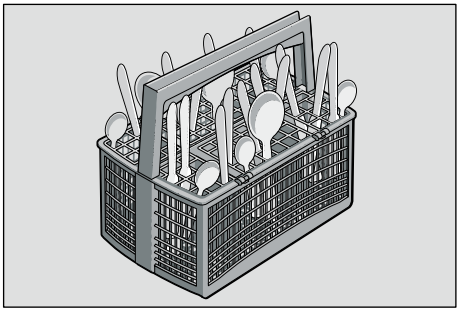
Tip

Other examples, such as the best way of loading your dishwasher, can be found on our homepage as a free download. The corresponding Internet address can be found on the back page of these instructions for use.

Cutlery basket

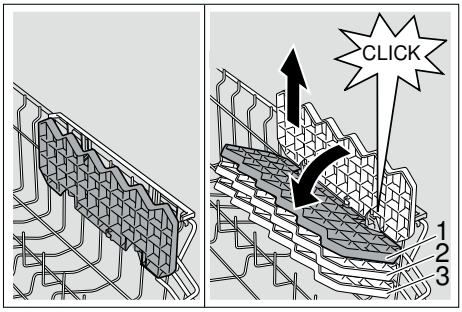
You should always place cutlery unsorted with the points downwards.

To prevent injuries, place long, pointed implements and knives on the knife shelf.



Etagere *

The etagere and the space underneath can be used for small cups and glasses or for larger items of cutlery, such as wooden spoons or serving cutlery. The etagere can be folded up if not required.

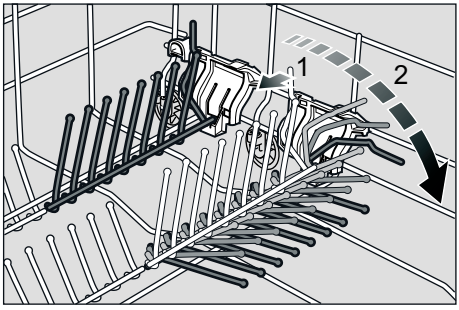


* Depending on the model, a 3-fold height adjustment is possible. To do this, first place the etagere vertically and pull up, then place at a slight angle, push down to the required height (1, 2, or 3) and snap into place.

Folding spikes *

* depending on model

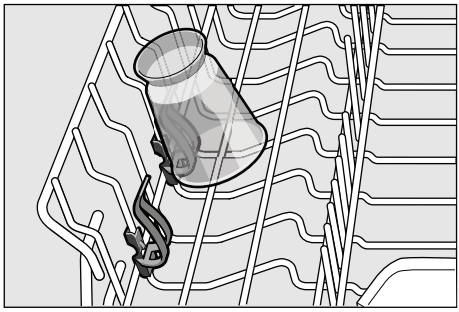
The spikes can be folded down to improve arrangement of pans, bowls and glasses.



Small accessories holder *

* depending on model

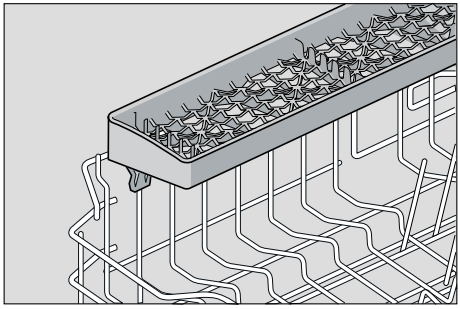
Light-weight plastic accessories, e.g. cups, lids, etc. can be held securely in the small accessories holder.



Knife shelf *

* depending on model

Long knives and other utensils can be arranged horizontally.



Adjusting the height of the basket *

* depending on model

If required, the height of the upper utensils basket 20 can be adjusted to provide more space for tall utensils either in the upper or lower basket.

Appliance height 81.5 cm

	Top basket	Bottom basket
Setting 1 max. ø	22 cm	30 cm
Setting 2 max. ø	24.5 cm	27.5 cm
Setting 3 max. ø	27 cm	25 cm

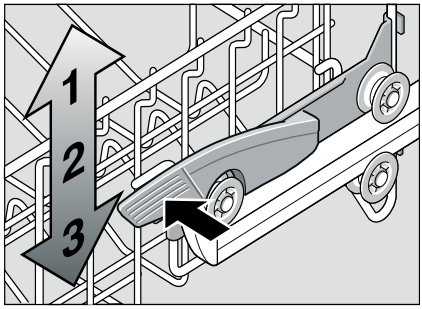
Appliance height 86.5 cm

	Top basket	Bottom basket
Setting 1 max. ø	24 cm	33 cm
Setting 2 max. ø	26.5 cm	30.5 cm
Setting 3 max. ø	29 cm	28 cm

Select one of the two following procedures according to the design of the top basket for your appliance model:

Top basket with side levers

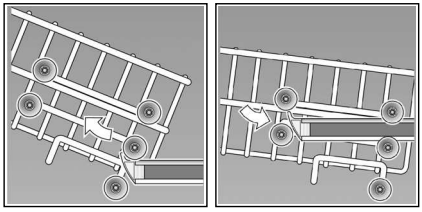
1. Pull out the top basket 20 out.
2. To **lower** the basket, press in the left and then the right lever on the outside of the basket. In doing so, hold the sides of the basket along the upper edge to prevent it from suddenly dropping.



3. To **raise** the basket, hold the basket on the sides of the upper edge and lift it up.
4. Before re-inserting the basket again, ensure that it is at the **same height** on both sides. Otherwise, the appliance door cannot be closed and the upper spray arm will not be connected to the water circuit.

Top basket with upper and lower roller pairs

1. Pull out the top basket 20 out.
2. Remove the upper basket and re-attach it to the upper (stage 3) or lower (stage 1) rollers.



Detergent

You can use tablets as well as powder or liquid detergents for dishwashers, but never use washing up liquid.
The dosage can be individually adjusted with powder or a liquid detergent according to the degree of soiling.
Tablets contain an adequately large amount of active ingredients for all cleaning tasks. Modern, powerful detergents predominantly use a low-alkaline formulation with phosphate and enzymes. Phosphates bond the lime in the water. Enzymes break down starch and remove protein.
Phosphate-free detergents are less frequent. These have a slightly weaker lime bonding capacity and require a higher dosage. To remove coloured stains (e.g. tea, tomato sauce), oxygen-based bleaching agents are usually used.

Note

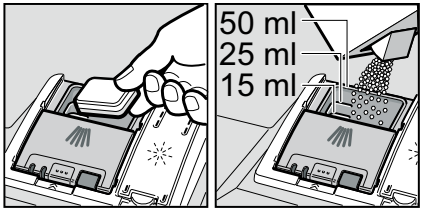
To ensure a good washing result, always follow the instructions on the detergent packaging!
If you have further questions, we recommend that you contact the detergent manufacturers' helpline.

⚠ **Warning –** Read and observe the safety information and instructions for use on the packaging for cleaning and rinsing agents.

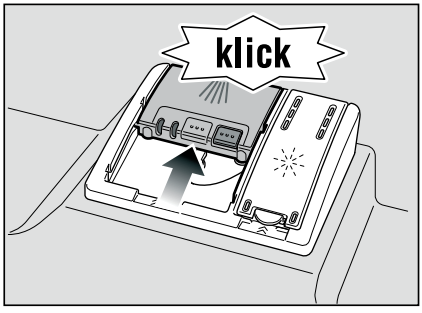
Adding detergent

1. If the detergent dispenser [30] is still closed, press the lock [31] to open the detergent dispenser.

   Pour detergent into the dry detergent dispenser [30] only (insert tablet flat, not on its edge).
   Dosage: see manufacturer's instructions on the packaging.
   The graduated detergent dispenser [30] helps you add the correct amount of powder or liquid detergent.
   Usually 20 ml–25 ml are adequate for normal soiling. If using tablets, one tablet is adequate.



2. Close the cover on the detergent dispenser by sliding it up until the lock engages without difficulty.



   The detergent dispenser opens automatically at the optimum time depending on the programme.
   The powder or liquid detergent is distributed in the appliance and is dissolved, the tablet falls into the tablet collecting tray where it dissolves in doses.

Tip

If the utensils are only lightly soiled, slightly less than the indicated amount of detergent is usually adequate.

Suitable detergents and care products can be purchased online via our website or via customer service (see back page).

Combination detergent

Apart from conventional detergents (Solo), a number of products are offered with additional functions. These products contain not only the detergent but also rinse-aid and salt replacement substances (3in1) and, depending on the combination (4in1, 5in1, etc.), additional components such as glass protection or stainless steel cleaner. Combination detergents function only up to a specific degree of hardness (usually 21°dH). Over this limit salt and rinse-aid must be added.

As soon as combined detergents are used, the rinse programme is adjusted automatically to ensure the best possible rinsing and drying result.

⚠ **Warning –** Do **not** place small parts for washing in the tablet collecting tray [22]; this prevents the tablet from dissolving evenly.

⚠ **Warning –** If you want to add more utensils after the programme has started, do **not** use the tablet collecting tray [22] as a handle for the upper basket. The tablet could already be there and you will touch the partially dissolved tablet.

Notes

- You will obtain optimum rinsing and drying results by using solo detergents and applying salt and rinse aid separately.
- If programmes are short, tablets may not have full cleaning effect due to different dissolving properties and there may even be undissolved detergent residue. It is recommended to use washing powder for these programmes.
- The Intensive programme (on some models) requires one tab only. When using washing powder, you can apply some of this cleaning agent to the inside of the appliance's door.
- Even if the rinse-aid and/or salt refill indicator is lit, the rinse programme will run correctly with combined detergents.
- If using detergents in a water-soluble protective cover: Take hold of the cover with dry hands only and put the detergent into an absolutely dry detergent dispenser only, otherwise the detergent may stick.
- If you switch from combined detergents to solo detergents, ensure that the water softening system and amount of rinse aid have been set to the correct value.

Overview of programmes

The max. possible number of programmes is illustrated in this overview. The corresponding programmes and their arrangement can be found on the fascia.

Type of utensils	Type of soiling	Programme	Possible additional options	Programme sequence
pots and pans, non-sensitive utensils and cutlery	very adhesive burned-in or dried-on food remnants containing starch or protein	Intensive 70°	all	Prerinse Clean 70° Intermediate rinse Final rinse 65° Drying
		Normal 65°	all	Prerinse Clean 65° Intermediate rinse Final rinse 65° Drying
mixed utensils and cutlery	part dried, common household food remnants	Normal 65°	all	Prerinse Clean 65° Intermediate rinse Final rinse 65° Drying
		eco Eco 50°	all	Prerinse Clean 50° Intermediate rinse Final rinse 65° Drying
sensitive utensils, cutlery, temperature-sensitive plastic and glasses	slightly adhesive, fresh food remnants	Gentle 40°	IntensivZone Express Wash/ Speed Perfect (VarioSpeed) Half load Extra drying	Prerinse Clean 40° Intermediate rinse Final rinse 55° Drying
		Quick 45°	Extra drying	Clean 45° Intermediate rinse Final rinse 55°
all types of utensils	cold rinsing, intermediate cleaning	Prerinse	none	Prerinse

Programme selection

You can select a suitable programme according to the type of utensils and degree of soiling.

Information for test institutes

Test institutes receive the information for comparability tests (e.g. according to EN60436).

These are the conditions for conducting the tests, however these are not the results or consumption values.

Request by e-mail to:

dishwasher@test-appliances.com

The product number (E no.) and the production number (FD) are required which you can find on the rating plate [32] on the appliance door.

P+ Additional options

* depending on model

Additional options can be set with the buttons [7].

Express Wash/ Speed Perfect/ (VarioSpeed) *

This function can reduce the running time by approx. 20% to 50% depending on the selected rinse programme. The change in the running time is indicated on the digital display [5]. To obtain optimum cleaning results at a reduced running time, water and energy consumption are increased.

½ Half load *

If you have only a few items to wash (e.g. glasses, cups, plates), you can switch to “half load”. This will save water, energy and time. It is recommended to put a little less detergent in the detergent dispenser than for a full load.

Hygiene *

The temperature is increased during the cleaning process. This increases the hygiene status. This additional option is ideal for cleaning e.g. chopping boards and baby bottles.

Intensive zone *

Perfect for a mixed load. You can wash very soiled pots and pans in the lower basket together with normally soiled utensils in the upper basket. The spray pressure in the lower basket is intensified, the rinsing temperature is increased slightly.

Extra drying *

An increased temperature during the final rinse and an extended drying phase ensure that even plastic parts dry better. There is a slight increase in the energy consumption.

Operating the appliance

Programme data

The programme data (consumption values) can be found in the summary of instructions. They refer to normal conditions and the water hardness set value H:04. Different influencing factors such as e.g. water temperature or line pressure may result in deviations.

Aqua sensor *

* depending on model

The Aqua sensor is an optical measuring device (light barrier) which measures the turbidity of the rinsing water.

The Aqua sensor is used according to the programme. If the Aqua sensor is active, “clean” rinsing water can be transferred to the next rinse bath and water consumption can be reduced by 3–6 litres. If the turbidity is greater, the water is drained and is replaced with fresh water. In the automatic programmes the temperature and running time can also be adjusted to the degree of soiling.

Switching on the appliance

1. Turn on the tap fully.
2. Switch on ON/OFF switch [1].
3. Rotate programme selector [3] to the required programme.
   The expected programme duration flashes on the digital display [5].
4. Press START button [4].
   The programme starts running.

Note

- for environmentally friendly operation of the dishwasher:
The Eco 50° programme is a particularly environmentally friendly programme. According to EU regulation 1016/2010 it is the “Standard programme” which is the most efficient standard cleaning cycle for cleaning normally soiled utensils in terms of the combined energy and water consumption for cleaning these types of utensils.

Remaining running time display

When the programme is selected, the remaining running time of the programme is indicated on the digital display [5].

The running time is determined during the programme by the water temperature, the number of utensils as well as the degree of soiling and may vary (depending on the selected programme).

Timer programming *

* depending on model

You can delay the start of the programme in 1-hour steps up to 24 hours.

1. Close the door.
2. Switch on ON/OFF switch [1].
3. Press button [6] until the digital display [5] jumps to h:01.
4. Press button [6] until the displayed time corresponds with your requirements.

5. Press START button 4, timer programming is activated.
6. To delete the preselected starting time, press the button 6 until h is indicated on the digital display.

   You can change your programme selection at any time until the programme starts.

End of programme

The programme has ended when the value 0:00 is indicated on the numerical display 5.

Switching off automatically after the end of the programme *

* depending on model

To save energy, the dishwasher is switched off 1 minute after the programme ends (factory setting).

Automatic disconnection can be adjusted from P:00 to P:02.

P:00 Appliance does not switch off automatically

P:01 Off after 1 min

P:02 Off after 120 min

1. Close the door.
2. Switch on ON/OFF switch 1.
3. Press and hold down the START button 4.
4. Rotate programme selector 3 until P:0... s indicated on the digital display 5.
5. Release button.

   The factory set value P:01 is lit on the digital display 5.

To change the setting:

1. Rotate programme selector 3 until the required value is indicated on the digital display 5.
2. Press START button 4.

   The set value is saved.

Switching off the appliance

Short time after the end of the programme:

1. Switch off ON/OFF switch 1.
2. Turn off the tap (not applicable if Aqua-Stop fitted).
3. Remove the utensils when they have cooled down.

Note

When the programme ends, leave the appliance to cool down a while before opening it. This will prevent steam from escaping and causing long-term damage to your built-in furniture.

Interrupting the programme

1. Switch off ON/OFF switch 1.

   The LEDs go out. The programme is saved.
   If the door was opened on an appliance which has a warm water connection or is heated, first leave the door ajar for several minutes and then close. Otherwise, expansion (pressure) may cause the appliance door to spring open or water to run out of the appliance.
2. To continue the programme, switch on the ON/OFF switch 1 again.

Terminating the programme (Reset)

1. Press START button 4 for approx. 3 sec.
   The numerical display 5 indicates 0:01.
2. The programme sequence lasts approx. 1 min. On the digital display 5 is indicated 0:00.
3. Switch off ON/OFF switch 1.

Changing the programme

When the START button 4 has been pressed, the programme cannot be changed.

The only way a programme can be changed is by Cancel programme (Reset).

Intensive drying

The final rinse uses a higher temperature which improves the drying result. The running time may increase slightly. (Caution if utensils are delicate!)

1. Close the door.
2. Switch on ON/OFF switch 1.
3. Press and hold down the START button 4.
4. Rotate programme selector 3 until d:00 is indicated on the digital display 5.
5. Release button.
   The factory-set value d:00 is lit on the digital display 5 (intensive drying off).

Change the setting as follows:

1. By rotating the programme selector 3, you can switch intensive drying on d:01 or off d:00.
2. Press START button 4.
   The set value is saved.

Cleaning and maintenance

A regular inspection and maintenance of your machine will help to prevent faults. This saves time and prevents problems.

Overall condition of the machine

- Check spray arm for grease and limescale deposits.

If you find such deposits:

- Fill detergent dispenser with detergent. Start the appliance without utensils in the programme with the highest rinsing temperature.

Clean the appliance with detergents/ appliance cleaners which are particularly suitable for use with dishwashers.

- To ensure that the door seal always remains clean and hygienic, regularly clean it with a damp cloth and a little washing-up liquid.
- If the appliance is switched off for a prolonged period, leave the door ajar to prevent the formation of an unpleasant odour.

Never use a steam cleaner to clean your dishwasher. The manufacturer is not liable for any consequential damage.

Regularly wipe the front of the appliance and fascia with a damp cloth; water and a little washing up liquid are adequate. Do not use sponges with a rough surface or abrasive detergents, as these could scratch the surfaces.

Stainless steel appliances: To prevent corrosion, avoid using sponge cloths or wash them out thoroughly several times before using for the first time.

⚠ Warning – Health hazard
Never use other domestic detergents, e.g. containing chlorine!

Special salt and rinse aid

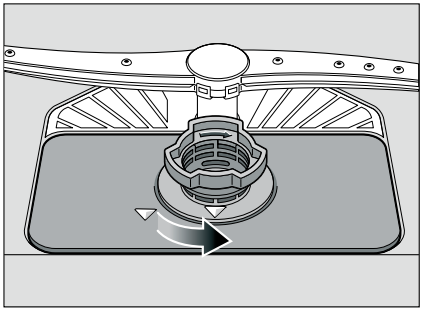
- Check the refill indicators 9 and 8. If required, refill salt and/or rinse aid.

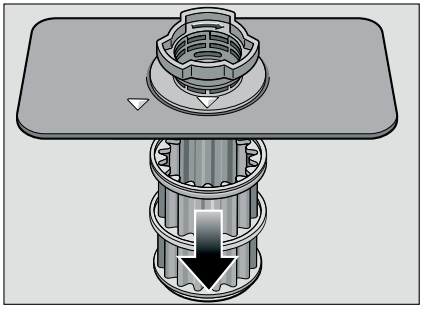
Filters

The filters 26 keep large foreign objects in the rinsing water away from the pump. These foreign objects may occasionally block the filters.

The filter system consists of a coarse filter, a flat fine filter and a microfilter.

1. After each washing cycle check the filters for residue.
2. Unscrew filter cylinder as illustrated and take out filter system.



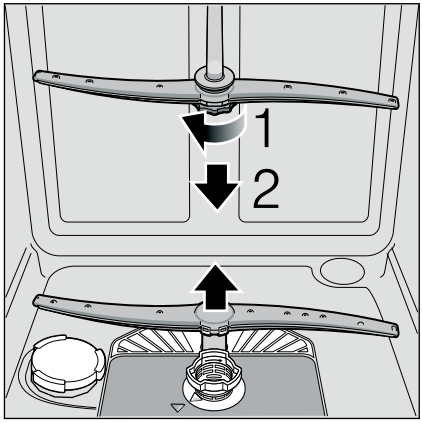


3. Remove any residue and clean filters under running water.
4. Re-install filter system in reverse sequence and ensure that the arrow marks are opposite each other after closing the filter system.

Spray arms

Limescale and contaminants in the rinsing water may block nozzles and bearings on the spray arms 23 and 24.

1. Check outlet nozzles on the spray arms for blockages.
2. Unscrew the upper spray arm 23.
3. Remove the lower spray arm 24 upwards.



4. Clean spray arms under running water.
5. Re-engage or screw on spray arms.

Fault, what to do?

Experience has shown that you can rectify most faults which occur in daily operation yourself. This ensures that the machine is quickly available to you again. In the following overview you can find possible causes of malfunctions and helpful information for rectifying them.

Note

If the appliance stops during dishwashing or does not start for no obvious reason, first run the Abort programme function (Reset).
(See chapter entitled “Operating the appliance”)

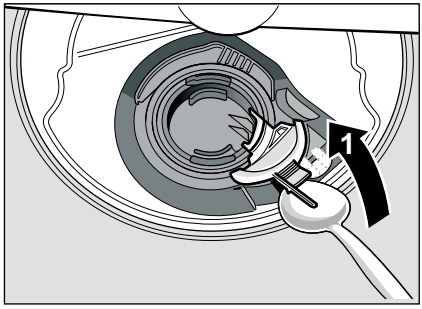
⚠ **Warning –** Don’t forget: Repairs may be carried out by technicians only. If a component has to be replaced, ensure that only original spare parts are used. Improper repairs or use of non-original spare parts may cause considerable damage and put the user at considerable risk.

Waste water pump

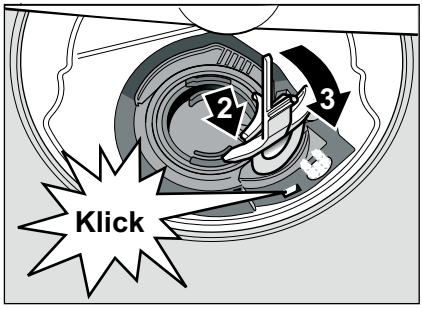
Large food remnants or foreign objects which were not captured by the filters may block the waste water pump. The rinsing water will then be above the filter.

In this case:

1. First always disconnect the appliance from the power supply.
2. Take out top basket [20] and bottom basket [28].
3. Remove the filters [26].
4. Scoop out water, use a sponge if required.
5. Prise out the white pump cover (as illustrated) using a spoon. Grip the cover on the crosspiece and lift diagonally inwards. Remove cover completely.

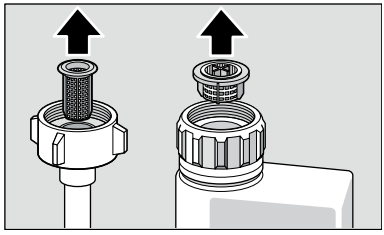


6. Check impeller wheel and remove any foreign objects.
7. Place cover in the original position and press down until it engages (click).

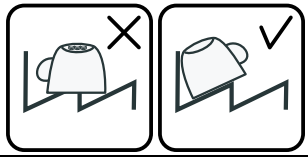


8. Install filters.
9. Re-insert baskets.

Fault table

Fault	Cause	Remedial action
"Check water supply" display 10 lights up.	Supply hose kinked.	Install supply hose without kinks.
	Tap turned off.	Turn on the tap.
	Tap jammed or calcified.	Turn on the tap. Flow rate must be min. 10 l/min. when water supply is open.
	Filter in the water supply blocked.	Switch off the appliance and pull out the mains plug. Turn off the tap. Unscrew water connection.  Clean filter in the supply hose. Screw water connection on again. Check for leaks. Reconnect power supply. Switch on the appliance.
Error code E:22 is lit.	Filters 26 are soiled or blocked.	Clean filters. (See Cleaning and maintenance)
Error code E:24 is lit.	Waste water hose is blocked or kinked.	Install hose without kinks, remove any residue.
	Siphon connection still sealed.	Check connection to siphon and open if required.
	Cover on the waste water pump loose.	Lock cover correctly. (See Waste water pump)
Error code E:25 is lit.	Waste water pump blocked or cover on the waste water pump is not locked in position.	Clean pump and lock cover correctly. (See Waste water pump)
Error code E:27 is lit.	Mains voltage too low.	Not an appliance fault, have the mains voltage and electrical installation checked.

Fault	Cause	Remedial action
A different error code is indicated on the digital display. (E:01 to E:30)	A technical fault has probably occurred.	Switch off appliances with the ON/OFF switch 1. After a short time restart the appliance. If the problem recurs, turn off the tap and pull out the mains plug. Call customer service and mention the error code.
Display flashes	Door not closed properly.	Close the door. Ensure that no objects (utensil, fragrance dispenser) are protruding over the basket and preventing the door from closing.
Refill indicator for salt 9 and/or rinse-aid 8 is lit.	No rinse aid.	Refill rinse aid.
	No salt.	Refill with special salt.
	Sensor does not detect salt tablets.	Use different special salt.
Refill indicator for salt 9 and/or rinse-aid 8 is not lit.	Refill indicator switched off.	Activation/deactivation (see chapter Water softening system/Special salt or Rinse aid).
	There is still enough special salt/ rinse aid available.	Check refill indicator, levels.
Water is left in the appliance at the end of the programme.	Filter system or area under the filters 26 is blocked.	Clean filters and area underneath (see Waste water pump).
	The programme has not yet ended.	Wait until programme ends or reset (see Terminating the programme).

Fault	Cause	Remedial action
Utensils not dry.	No or too little rinse aid in the dispenser.	Refill rinse aid.
	Programme selected without drying.	Select programme with drying (see Overview of programmes, Programme sequence).
	Water collecting in depressions on the utensils and cutlery.	Arrange utensils in a sloping position, arrange affected utensils as sloping as possible. 
	The combined detergent used has a poor drying performance.	Use different combination detergent with better drying performance. Use of rinse aid also increases the drying performance.
	Intensive drying to increase drying not activated.	Activate intensive drying (see Operating the appliance)
	Utensils were removed too early or drying process had not ended yet.	Wait until program ends or wait until 30 min after program ends before removing utensils.
	The eco rinse aid used has a poor drying performance.	Use a proprietary rinse aid. Eco products are much less effective.
Plastic utensils not dry.	Special properties of plastic.	Plastic has a lower heat storage capacity and therefore dries less well.
Cutlery not dry.	Cutlery not arranged properly in the cutlery basket.	Separate cutlery if possible, prevent contact points.
	Cutlery not arranged properly in the cutlery drawer.	Arrange cutlery properly and separate if possible.
Appliance interior wet after rinse cycle.	No appliance fault.	On account of the “Condensation drying” principle, water droplets are physically induced and required in the container. The humidity in the air condenses on the inner walls of the dishwasher, drains and is pumped out.

Fault	Cause	Remedial action
Food remnants on the utensils.	Utensils placed too closely together, utensils basket overfilled.	Arrange utensils with adequate clearance between them ensuring that the spray jets can reach the surface of the utensils. Prevent contact points.
	Spray arm rotation obstructed.	Arrange utensils so that the spray arm can rotate without obstruction.
	Spray arm nozzles blocked.	Clean the spray arm nozzles, (See Cleaning and maintenance).
	Filters 26 dirty.	Clean filters, (see Cleaning and maintenance).
	Filters 26 inserted incorrectly and/or not engaged.	Insert and engage filters correctly.
	Rinse programme too weak.	Select a more intensive rinse programme.
	Utensils precleaned too intensely; sensors therefore decide on weak programme sequence. Stubborn soiling cannot be completely removed.	Do not prerinse utensils. Remove only large food remnants. Recommended programme Eco 50° or Intensive.
	Tall narrow receptacles in corner areas are not rinsed adequately.	Do not place hollow receptacles too obliquely and do not place in the corner area.
	Top basket 20 on right and left not set to same height.	Set top basket to same height using side levers.
Detergent residue	Detergent dispenser cover blocked by utensils and therefore does not open fully.	Detergent dispenser cover must not be obstructed by utensils. Do not place utensils or fragrance dispenser in the tablet collecting tray.
	Detergent dispenser cover blocked by the tablet.	Tablet must be inserted flat and not upright.
	Tablets used in the quick or short programme.	Dissolving time of tablets too long for a quick or short programme.
	Dissolving time of the detergent is not reached in the selected short programme.	Use a detergent powder or select a more intensive programme.
	Washing effect and dissolving performance are reduced after a prolonged storage time or detergent is very lumpy.	Change detergent.

Fault	Cause	Remedial action
Water stains on plastic parts	Droplet formation on plastic surface is physically unavoidable. After drying, water stains are visible.	Use a more intensive programme (more water changes). Arrange utensils in a sloping position. Use rinse aid. If required, increase softening setting.
Washable or water-soluble coatings in the container or on the door.	Detergent substances are deposited. These coatings cannot usually be removed with chemicals (appliance cleaner, ...).	Change detergent brand. Clean appliance mechanically.
	If there is a “white coating” on the container floor, the water softening system has been set marginally.	Increase softening setting and change detergent if required.
	Salt dispenser cover 25 not closed.	Close salt dispenser cover correctly.
	Only for glasses: Initial glass corrosion – can only apparently be wiped off.	See Glass and utensil damage.
White, stubborn coatings; limescale on the utensils, container or door.	Detergent substances are deposited. These coatings cannot usually be removed with chemicals (appliance cleaner, ...).	Change detergent brand. Clean appliance mechanically.
	Hardness range incorrectly set or water hardness greater than 8.9 mmol/l.	Set water softening system according to instructions for use or top up salt.
	3 in 1 detergent or bio/eco detergent not effective enough.	Set water softening system according to instructions for use or use separate detergents (proprietary detergent, salt, rinse aid).
	Underdosing of detergent.	Increase detergent dosage or change detergent.
	Too weak rinse programme selected.	Select a more intensive rinse programme.
Tea or lipstick residue on the utensils.	Too low rinsing temperature.	Select programme with higher washing temperature.
	Too little or unsuitable detergent.	Use suitable detergent at correct dosage.
	Utensils precleaned too intensely; sensors therefore decide on weak programme sequence. Stubborn soiling cannot be completely removed.	Do not prerinse utensils. Remove only large food remnants. Recommended programme Eco 50°

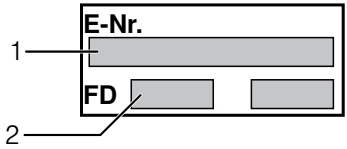
Fault	Cause	Remedial action
Coloured (blue, yellow, brown), difficult to remove to non-removable coatings in the appliance or on stainless steel utensils.	Film formation consisting of ingredients from vegetables (e.g. cabbage, celery, potatoes, noodles, ...) or the tap water (e.g. manganese).	Can be partly removed with machine cleaner or by mechanical cleaning. Coatings are harmless.
	Film formation caused by metallic components on silver or aluminium utensils.	Can be partly removed with machine cleaner or by mechanical cleaning.
Coloured (yellow, orange, brown), easily removable deposits inside the appliance (mainly in the floor area)	Film formation consisting of ingredients from food remnants and substances from the tap water (limescale), "soapy"	Check function of the water softening system (refill with salt) or, if using combined detergents (tablets), activate water softening system (see chapter Water softening system/Special salt)
Plastic parts discoloured.	Too low rinsing temperature.	Select programme with higher washing temperature.
	Utensils precleaned too intensely; sensors therefore decide on weak programme sequence. Stubborn soiling cannot be completely removed.	Do not prerinse utensils. Remove only large food remnants. Recommended programme Eco 50°
Removable streaks on glasses, glasses with metallic appearance and cutlery.	Too much rinse aid.	Set rinse aid amount to lower setting.
	No rinse aid added or setting too low.	Add rinse aid and check dosage (recommended setting 4-5).
	Detergent residue in the final rinse programme section. Detergent dispenser cover blocked by utensils (cover does not open fully).	Detergent dispenser cover must not be obstructed by utensils. Do not place utensils or fragrance dispenser in the tablet collecting tray.
	Utensils precleaned too intensely; sensors therefore decide on weak programme sequence. Stubborn soiling cannot be completely removed.	Do not prerinse utensils. Remove only large food remnants. Recommended programme Eco 50°
Initial or existing, irreversible clouding of glass.	Glasses not dishwasher-proof, only suitable for dishwasher.	Use dishwasher-proof glasses. Avoid long steam phase (standing time after wash cycle ends). Use wash cycle at lower temperature. Set water softening system according to the water hardness (if required one setting lower). Use detergent with glass protection component.

Fault	Cause	Remedial action
Rust spots on the cutlery.	Cutlery not adequately rust-resistant. Knife blades are frequently more severely affected.	Use corrosion-resistant cutlery.
	Cutlery will also rust if rusting parts are rinsed at the same time (pan handles, damaged utensil baskets, etc.).	Do not wash rusting parts.
	Salt content in the rinsing water too high, as salt dispenser lock not fastened firmly or salt was spilled while being refilled.	Fasten salt dispenser lock firmly or remove spilled salt.
The appliance does not start.	The mains fuse has tripped.	Check mains fuse.
	Power cord not inserted.	Ensure that the power cord is plugged all the way into the back of the appliance and into the socket. Check that the socket functions.
	The appliance door has not been shut properly.	Close the door.
Programme starts automatically.	You did not wait until programme ended.	Perform reset. (See Terminating the programme).
Appliance cannot be set (hardness, final rinse, ...).	Appliance is in the programme. Appliance can be set at the start of the programme only.	Perform reset (see Terminating the programme) and set the appliance according to the instructions for use.
The door is difficult to open.	Child-proof lock is activated.	Deactivate childproof lock. (See instructions for use at the back)
Door cannot be closed.	Door lock has been activated.	Close door with increased force.
	Door cannot be closed due to installation.	Check appliance installation: Door or attached parts must close without obstruction.
Cover on the detergent dispenser cannot be closed.	Detergent dispenser or cover guide blocked by sticky detergent residue.	Remove detergent residue.
Detergent residue in the detergent dispenser or in the tablet collecting tray.	Spray arms blocked by utensils, therefore detergent is not rinsed out.	Ensure that the spray arms can rotate freely.
	The detergent dispenser was damp when filled.	Pour detergent into the dry detergent dispenser only.

Fault	Cause	Remedial action
Appliance stops in the programme or programme is interrupted.	Door not closed properly.	Close the door.
	Do not place utensils or fragrance dispenser in the tablet collecting tray.	Check whether rear panel is being pressed in, e.g. by socket or by hose holder which has not been removed.
	Top basket presses against inner door and prevents door from being closed securely.	
	Power and/or water supply interrupted.	Restore power and/or water supply.
Filling valves making striking noises.	Depends on domestic installation, as appliance is not defective. No effect on appliance function.	No remedial action possible.
Knocking or rattling noise.	Spray arm strikes the utensils, utensils not positioned correctly.	Position utensils so that the spray arms do not strike the utensils.
	If there is a low load, the water jets strike the washing tank directly.	Load the appliance with more utensils or distribute the utensils more evenly in the dishwasher.
	Light utensils move during the wash cycle.	Arrange light utensils securely.
Unusual foam formation.	Handwash liquid in the rinse aid dispenser.	Immediately refill rinse aid dispenser with rinse aid.
	Rinse aid spilled.	Remove rinse aid with a cloth.

Customer service

If you are unable to rectify the fault, please contact your customer service. We always find a suitable solution, even to avoid unnecessary visits by technicians. Contact information for your nearest customer service can be found on the back of these instructions for use or on the enclosed customer service list. When calling, please state the appliance number (E-Nr. = 1) and the production number (FD = 2) which can be found on the rating plate 32 on the appliance door.



Rely on the competence of the manufacturer. Contact us. You can therefore be sure that the repair is carried out by trained service technicians who carry original spare parts for your domestic appliances.

Installation and connection

The dishwasher must be connected correctly, otherwise it will not function properly. The specifications for the inlet and outlet as well as the electrical connected loads must correspond with the required criteria as specified in the following paragraphs or in the installation instructions.

Install the appliance in the correct sequence:

1. Checking appliance on delivery
2. Installing the appliance
3. Waste water connection
4. Fresh water connection
5. Electrical connection

Product package

If you have any complaints, contact the dealer where you purchased the appliance or our customer service.

- Dishwasher
- Instructions for use
- Installation instructions
- Warranty*
- Installation materials
- Steam guard plate*
- Rubber apron*
- Power cord

* depending on model

Safety instructions

Please follow the safety instructions under “Installation”.

Delivery

Your dishwasher has been checked thoroughly in the factory to ensure that it is in working order. This may cause small water stains. These will disappear after the first wash cycle.

Technical specifications

Weight:

max. 60 kg

Voltage:

220–240 V, 50 Hz or 60 Hz

Connected load:

2.0–2.4 kW

Fuse:

10/16 A (UK 13A)

Power input:

switched off 0.1 W

not switched off 0.1 W

Water pressure:

at least 0.05 MPa (0.5 bar), maximum 1 MPa (10 bar). At a higher water pressure: connect pressure-reducing valve ahead.

Inlet rate:

minimum 10 litres/minute

Water temperature:

Preferably cold water; if hot water, depending on type of water inlet hose, max. temp. 60 °C (see Fresh water connection).

Installation

The required installation dimensions can be found in the installation instructions. Level the appliance with the aid of the height-adjustable feet. Ensure that the appliance is situated securely on the floor.

- A built-under or integrated appliance which is installed subsequently as a free-standing appliance must be secured to prevent it from overturning, e.g. by screwing it to the wall or by installing it under a continuous worktop which is screwed to adjacent cupboards.
- The appliance can easily be installed in a fitted kitchen between wooden and plastic walls.

Waste-water connection

1. The required work sequence can be found in the installation instructions. If required, fit a siphon with an drainage connection.
2. Connect the waste-water hose to the drainage connection of the siphon with the enclosed parts.

   Ensure that the drainage hose is not kinked, crushed or twisted and that there is no cover plate in the drainage to prevent the waste water from flowing out!

Fresh water connection

1. Connect the fresh-water connection to the tap according to the installation instructions with the enclosed parts.

   Ensure that the fresh-water connection is not kinked, crushed or twisted.
2. When replacing the appliance, always use a new water supply hose.

Water pressure:

at least 0.05 MPa (0.5 bar), maximum 1 MPa (10 bar). At a higher water pressure: connect pressure-reducing valve ahead.

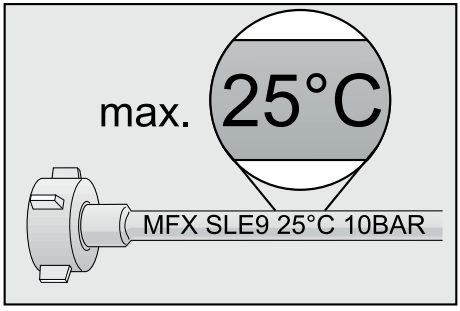
Inlet rate:

minimum 10 litres/minute

Water temperature:

Note printing on the water inlet hose!

If models are marked with 25°, the water temperature may be max. 25 °C (cold water).



For all other models:

cold water preferred; hot water max. temperature 60 °C.

Warm water connection

* depending on model

The dishwasher can be connected to cold or hot water up to max. 60 °C.

Connection to hot water is recommended if the hot water can be supplied by energetically favourable means and from a suitable installation, e. g. solar heating system with circulation line.

This will save energy and time.

The hot water setting *A:01* allows you to adjust your appliance optimally to operation with hot water.

It is recommended to have a water temperature (temperature of the incoming water) of at least 40 °C and no more than 60 °C.

It is not recommended to connect the appliance to hot water if the water is supplied from an electric boiler.

Setting hot water:

1. Close the door.
2. Switch on ON/OFF switch [1].
3. Press and hold down the START button [4].
4. Rotate programme selector [3] until *A:01* is indicated on the digital display [5].
5. Release button.

   The factory-set value *A:00* is lit on the digital display [5].

To change the setting:

1. By rotating the programme selector [3], you can switch the hot water setting off *A:00* or on *A:01*.
2. Press START button [4].

   The set value is saved.

Electrical connection

- Connect the appliance to an alternating current only, ranging from 220 V to 240 V and 50 Hz or 60 Hz via a correctly installed socket with protective earth conductor. See rating plate for required fusing [32].
- The socket must be near the appliance and freely accessible following installation.

  If the plug is not freely accessible, an allpole disconnector with a contact opening of at least 3 mm must be fitted on the installation side to satisfy the relevant safety instructions.
- The connection may be modified by technicians only.
- A power cord extension may be purchased from customer service only.
- Use only a residual current operated circuit-breaker which features the symbol . Only this extension guarantees compliance with the currently valid regulations.
- The appliance features a water damage protection system. Please note the system will not function **unless** the power supply is connected.

Removing the appliance

Also observe the sequence of worksteps here.

1. Disconnect the appliance from the power supply.
2. Turn off the water supply.
3. Disconnect the waste water and fresh water connections.
4. Loosen fastening screws for the furniture parts.
5. If fitted, remove the base panel.
6. Pull out the appliance, carefully pulling the hose behind.

Transportation

Empty the dishwasher and secure loose parts.

Drain the appliance according to the following steps:

1. Turn on the tap.
2. Close the door.
3. Switch on ON/OFF switch [1].
4. Select programme with the highest temperature.

   The expected programme duration is indicated on the numerical display [5].
5. Press START button [4].

   Programme sequence starts.
6. After approx. 4 minutes press the START button [4] until 0:01 is indicated on the digital display.

   After approx. 1 min is indicated on the digital display 0:00.
7. Switch off ON/OFF switch [1].
8. Turn off the tap, disconnect supply hose and drain water.

Transport appliance upright only.

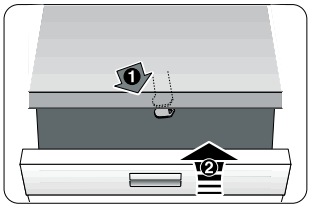
(This prevents residual water from running into the machine control and damaging the programme sequence.)

Protection against frost

If the appliance is in a room where there is a risk of frost (e.g. holiday home), empty the appliance completely (see Transportation).

Subject to changes.

Childproof lock (door lock) *



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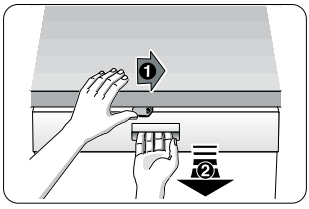

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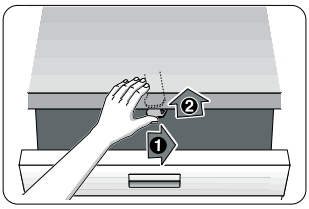

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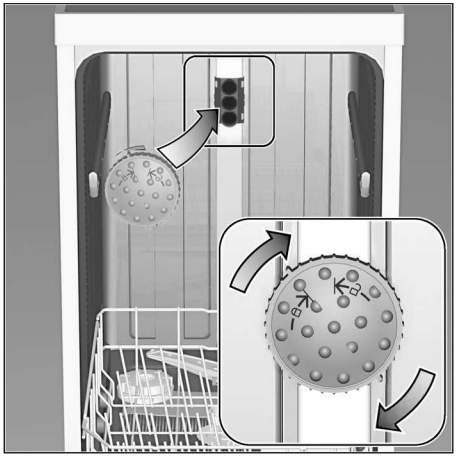
40 Activate the childproof lock.
41 Open the door with activated childproof lock.
42 Deactivate childproof lock.

⚠ Warning

Always close the appliance door completely when you leave the appliance.
This is the only way you can protect your children from potential dangers.

Baking sheet spray head *



Large sheets or grilles and plates which have a diameter greater than 30 cm (gourmet plates, pasta plates, dinner plates) can be cleaned with the aid of the spray head.
To do this, remove the top basket and insert the spray head as illustrated in the diagram.

To ensure that the spray jet can reach all parts, arrange the baking sheets as illustrated (max. 4 baking sheets and 2 grilles).

Never operate the dishwasher without the top basket or baking sheet spray head!

* some models

AquaStop guarantee (does not apply to appliances without AquaStop)

In addition to warranty claims against the seller based on the purchase contract and in addition to our appliance warranty we will pay damages under the following conditions:

1. If our AquaStop system is defective and causes water damage, we will make good the damage for private users. To ensure water damage protection, the appliance must be connected to the power supply.
2. This liability guarantee is valid for the service life of the appliance.
3. A prerequisite for the warranty claim is that the appliance has been correctly installed and connected with AquaStop according to our instructions. This also includes the correct installation of the AquaStop extension (original accessory). Our warranty does not extend to defective feed lines or fittings up to the AquaStop connection on the tap.
4. If your appliance is fitted with AquaStop, you can leave your appliance unattended during operation and leave the tap turned on afterwards. The tap should only be turned off if you are absent from home for a prolonged period, e.g. several weeks holiday.

☎ Repair order and advice on faults.

GB	0844 8928979	Calls from a BT landline will be charged at up to 3 pence per minute. A call set-up fee of up to 6 pence may apply.
IE	01450 2655	
US	800 944 2904	toll-free

Contact information for all countries can be found on the enclosed customer service list.

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